

## ABSTRACT:

This apparatus (1) comprises a receiving device (7) working with space diversity and comprising for this purpose two antennas (15) and (17). The device (7) receives signals modulated with complex time spreading coefficients  $C_0, C_1 \dots C_N$  produced by a base station (8). The receiving device comprises demodulation branches (30) and (31) which have 5 code inputs. To avoid signals coming from the antennas (15) and (17) being digitally coded in an independent manner, the mixer circuit (20) shifts the phase of the signals of one of the channels, whereas the code inputs of one of the branches receive the spreading code and the inputs of at least one other branch receive the conjugate spreading code. Telephone transmission for mobiles.

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Fig. 1